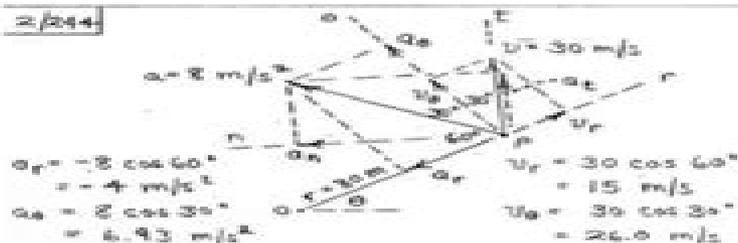


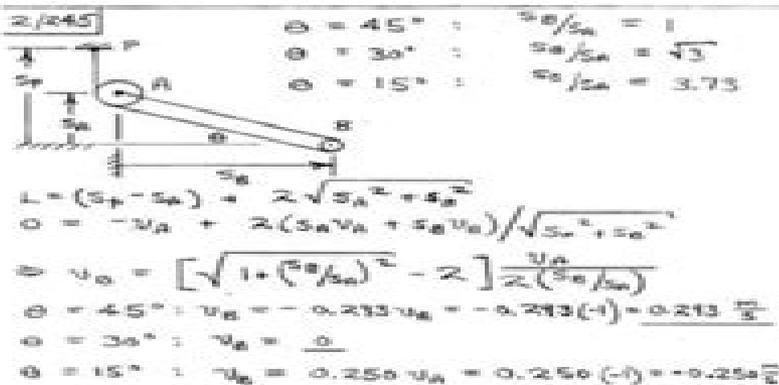
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$$\begin{aligned}
 [r-\theta] \quad v_r = \dot{r} &= 15 \text{ m/s} \\
 v_\theta = r\dot{\theta} &= 26.0 = 30\dot{\theta}, \quad \dot{\theta} = 0.867 \text{ rad/s} \\
 a_r = \ddot{r} - r\dot{\theta}^2 &= -4 = \ddot{r} - 30(0.867)^2, \quad \ddot{r} = 4.44 \text{ m/s}^2 \\
 a_\theta = r\ddot{\theta} + 2\dot{r}\dot{\theta} &= 6.93 = 30\ddot{\theta} + 2(15)(0.867), \quad \ddot{\theta} = 0.0352 \text{ rad/s}^2
 \end{aligned}$$

$$\begin{aligned}
 [n-t] : \quad a_n &= 8 \cos 30^\circ = 6.93 \text{ m/s}^2 \\
 a_t &= 8 \sin 60^\circ = 6.93 \text{ m/s}^2 \\
 a_n &= \frac{v^2}{r}, \quad r = \frac{v^2}{a_n} = \frac{30^2}{6.93} = 127.9 \text{ m}
 \end{aligned}$$

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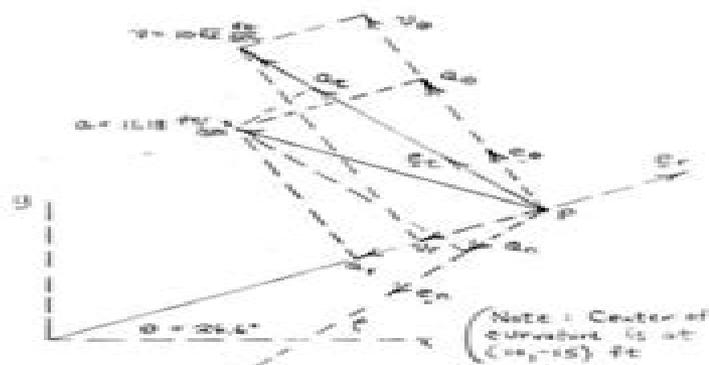


$$\begin{aligned}
 L &= (s_r - s_\theta) = 2\sqrt{s_r^2 + s_\theta^2} \\
 0 &= -v_A + 2(3v_A v_\theta + v_\theta^2) / \sqrt{v_r^2 + v_\theta^2} \\
 0 &= v_\theta = \left[\sqrt{1 + (v_\theta/v_r)^2} - 2 \right] \frac{v_A}{2(v_\theta/v_r)} \\
 \theta = 45^\circ : v_\theta &= -0.213 v_A = -0.213(-1) = 0.213 \frac{\text{ft}}{\text{s}} \\
 \theta = 30^\circ : v_\theta &= 0 \\
 \theta = 15^\circ : v_\theta &= 0.250 v_A = 0.250(-1) = -0.250 \frac{\text{ft}}{\text{s}}
 \end{aligned}$$

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$$\begin{aligned}
 x &= 50 \text{ ft}, \quad \dot{x} = -10 \text{ ft/sec}, \quad \ddot{x} = -10 \text{ ft/sec}^2 \\
 y &= 25 \text{ ft}, \quad \dot{y} = 10 \text{ ft/sec}, \quad \ddot{y} = 5 \text{ ft/sec}^2 \\
 v &= \sqrt{\dot{x}^2 + \dot{y}^2} = \sqrt{(-10)^2 + 10^2} = 10\sqrt{2} \text{ ft/sec} \\
 a &= \sqrt{\ddot{x}^2 + \ddot{y}^2} = \sqrt{(-10)^2 + 5^2} = 11.18 \text{ ft/sec}^2 \\
 s_r &= \dot{r} = (-10i + 10j) / \sqrt{10^2 + 10^2} = \frac{10}{20} (-i + j) \\
 s_\theta &= \dot{\theta} = (-10i + 10j) \cdot \frac{1}{20} (-i + j) = \frac{10(1+1)}{20} = 1 \text{ rad/sec} \\
 a_r &= \ddot{r} = \ddot{x} \cos \theta + \ddot{y} \sin \theta = (-10) \cos 45^\circ + 5 \sin 45^\circ = -7.07 + 3.54 = -3.53 \text{ ft/sec}^2 \\
 a_\theta &= \ddot{\theta} = \ddot{x} \sin \theta - \ddot{y} \cos \theta = (-10) \sin 45^\circ - 5 \cos 45^\circ = -7.07 - 3.54 = -10.61 \text{ ft/sec}^2 \\
 r &= \frac{v^2}{a_n} = \frac{(10\sqrt{2})^2}{10.61} = 19.2 \text{ ft} \\
 s_r &= \dot{r} = -2.5(-i + j) / 1.414 = -1.77(-i + j) \\
 s_\theta &= \dot{\theta} = 50i + 25j / \sqrt{50^2 + 25^2} = 0.894i + 0.447j \\
 a_r &= \ddot{r} = \ddot{x} \cos \theta + \ddot{y} \sin \theta = -10 \cos 45^\circ + 5 \sin 45^\circ = -7.07 + 3.54 = -3.53 \text{ ft/sec}^2 \\
 a_\theta &= \ddot{\theta} = \ddot{x} \sin \theta - \ddot{y} \cos \theta = (-10) \sin 45^\circ - 5 \cos 45^\circ = -7.07 - 3.54 = -10.61 \text{ ft/sec}^2 \\
 v_r &= \dot{r} = (-10i + 10j) \cdot (0.894i + 0.447j) = -8.94 + 4.47 = -4.47 \text{ ft/sec} \\
 v_\theta &= r\dot{\theta} = 19.2(1) = 19.2 \text{ ft/sec} \\
 a_r &= \ddot{r} = (-10i + 10j) \cdot (-0.894i - 0.447j) = 8.94 - 4.47 = 4.47 \text{ ft/sec}^2 \\
 a_\theta &= \ddot{\theta} = (-10i + 10j) \cdot (-0.894i - 0.447j) = 8.94 + 4.47 = 13.41 \text{ ft/sec}^2 \\
 a_r &= \ddot{r} = (-10i + 10j) \cdot (0.894i + 0.447j) = -8.94 - 4.47 = -13.41 \text{ ft/sec}^2 \\
 a_\theta &= \ddot{\theta} = (-10i + 10j) \cdot (-0.894i - 0.447j) = 8.94 + 4.47 = 13.41 \text{ ft/sec}^2 \\
 s_r &= \dot{r} = 2.74(-0.894i + 0.447j) = -2.45i + 1.22j \text{ ft/sec} \\
 r &= \sqrt{2.45^2 + 1.22^2} = 2.74 \text{ ft} \\
 \dot{\theta} &= \dot{\theta} = \frac{-4.47 \text{ ft/sec}}{2.74 \text{ ft}} = -1.63 \text{ rad/sec} \\
 v_\theta &= r\dot{\theta} = 2.74(-1.63) = -4.47 \text{ ft/sec} \\
 a_r &= \ddot{r} = \ddot{x} \cos \theta + \ddot{y} \sin \theta = -10 \cos 45^\circ + 5 \sin 45^\circ = -7.07 + 3.54 = -3.53 \text{ ft/sec}^2 \\
 a_\theta &= \ddot{\theta} = \ddot{x} \sin \theta - \ddot{y} \cos \theta = (-10) \sin 45^\circ - 5 \cos 45^\circ = -7.07 - 3.54 = -10.61 \text{ ft/sec}^2 \\
 a_r &= \ddot{r} = \ddot{x} \cos \theta + \ddot{y} \sin \theta = -10 \cos 45^\circ + 5 \sin 45^\circ = -7.07 + 3.54 = -3.53 \text{ ft/sec}^2 \\
 a_\theta &= \ddot{\theta} = \ddot{x} \sin \theta - \ddot{y} \cos \theta = (-10) \sin 45^\circ - 5 \cos 45^\circ = -7.07 - 3.54 = -10.61 \text{ ft/sec}^2 \\
 \theta &= \tan^{-1}(3/4) = \tan^{-1}(0.75) = 36.9^\circ
 \end{aligned}$$



Dynamics Meriam 6th Edition Solution Manual

Marco Cascella



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